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State of South Carolina

TWELFTH ANNUAL REPORT

of the

State Board of
Engineering Examiners

to the

GOVERNOR

For Year Ending June 30, 1934



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Roster of Registered Professional
Engineers and Land Surveyors

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**Roster of Registered Professional
Engineers and Land Surveyors**

1934

Letter of Transmittal

TO THE GOVERNOR

COLUMBIA, S. C., September 30, 1934.

*To His Excellency, HON. IBRA C. BLACKWOOD,
Governor of South Carolina,
Columbia, S. C.*

SIR:

In compliance with Sections 7068 and 7079, Civil Code of South Carolina 1932, Chapter 148, Article 2, we have the honor to transmit this Twelfth Annual Report of the activities of the Board, together with a statement of receipts and expenditures and a list of those registered in accordance with law.

The Board desires to express its appreciation of the cooperation and assistance received from your office and other State departments.

Respectfully submitted,

STATE BOARD OF ENGINEERING EXAMINERS,
HARWOOD BEEBE, *Chairman.*

Attest:

T. KEITH LEGARÉ, *Secretary.*

Personnel of South Carolina State Board of Engineering Examiners

HARWOOD BEEBE, *Chairman*, Spartanburg
The Harwood Beebe Company, Municipal and Civil Engineers
Member, American Society of Civil Engineers
Member, American Society of Municipal Engineers
Member, American Water Works Association
Member, American Society for Testing Materials
Member, North Carolina Society of Engineers
Member, South Carolina Society of Engineers

E. H. SHULER, *Vice Chairman*, Spartanburg
Asst. Professor of Applied Mathematics, Wofford College
Member, South Carolina Society of Engineers

T. KEITH LEGARÉ, *Secretary*, Columbia
Chief Labor Inspector, State Highway Department
Exec. Sec'y, National Council State Boards of Eng. Examrs.
Exec. Sec'y, National Society of Professional Engineers
Delegate, Engineers' Council for Professional Development
Member, American Society of Civil Engineers
Member, American Society of Municipal Engineers
Member, South Carolina Society of Engineers

L. S. LETELLIER, Charleston
Head, Department of Engineering,
The Citadel, Military College of South Carolina
Member, South Carolina Society of Engineers

GEORGE R. MORGAN, Greenville
Sales Engineer

Office of Board

1218 Senate Street, Columbia, S. C.

P. O. Drawer 1404.

REPORT

of the

State Board of Engineering Examiners

MEETINGS, FEES, RENEWALS, ETC.

Regular meetings of the Board are held on the second Tuesday of July and the first Tuesday of December of each year. All applications for registration must be made out on blanks furnished by the Board, accompanied by the required fee and filed with the Secretary of the Board at least ten days before meetings. The fee of \$15.00 required by law before an applicant can be admitted to examination will not be returned after candidate has taken examination irrespective of whether he passes or fails; nor will fee be returned if candidate fails to appear after being duly notified to report for examination, but the Board may at its discretion admit the candidate to a subsequent examination without additional fee.

All certificates of registration expire on June 30th of each year and those who continue to practice after that date without renewal will be violating the law. The annual renewal fee of \$5.00 for engineers and \$3.00 for land surveyors is payable on or before the 3rd Tuesday of June. Only one fee of \$5.00 is required when classification includes both engineer and surveyor. Registrations automatically revoked because of non-payment of renewal fees can be reinstated upon payment of all unpaid annual renewal fees; provided, however, that the Board reserves the right to review the records of delinquent registrants to determine their eligibility and, if deemed advisable, to require examinations of these applicants. The Board, for reasons it may deem sufficient, may reissue a certificate of registration to any person whose certificate has been revoked.

Due to the fact that many engineers and land surveyors, because of unemployment conditions, have not been engaged in engineering or surveying work in recent years, the Board passed a resolution adopting the following as a rule of the Board:

"Any registered professional engineer or registered land surveyor who submits to the Board an affidavit certifying that he has in no way practiced professional engineering or land survey during any fiscal year, July 1 to June 30, accompanied by a statement in detail showing all work performed during this period, may be exempted by the Board from pay-

ing the renewal fee required by Section 7076, Article 2, Chapter 148, Civil Code of South Carolina, 1932, for the specific period stated in his affidavit."

If registrant has been doing any engineering or surveying work, it will be necessary to pay the renewal fees for all fiscal years engaged in such work, before payment of renewal fee for the current year can be accepted.

HISTORY OF REGISTRATION ACT

The Act providing for the creation of the State Board of Engineering Examiners and the registration of professional engineers and land surveyors was passed by the State Legislature of South Carolina at the 1922 session and was approved by Governor R. A. Cooper on March 22, 1922. The Act, as now amended, was approved by Governor John G. Richards on March 10, 1928.

The first members of the Board were appointed and commissioned by Governor Wilson G. Harvey on May 31, 1922, and were as follows: G. E. Shand of Columbia, George Wrigley of Greenville, L. S. LeTellier of Charleston, W. S. Tomlinson of Columbia, and T. Keith Legaré of Columbia.

The Board held its first meeting in Columbia on June 17, 1922, and was organized by the election of officers and the appointment of committees. The present officers and members of the Board are given on page four.

REGISTRATION ACT ENFORCEMENT AND AMENDMENTS

The Board has invited the Committee on Registration of the South Carolina Society of Engineers to meet with it on December 4, 1934 to consider proposed amendments to the Act requiring the registration of engineers and surveyors, and means for better enforcement of the law. Any constructive suggestions will be welcomed by both the Board and the Society.

The full benefit to be derived from the Registration Act by the public and the profession will never be realized until the engineers of the State, through united effort, assist and cooperate in its administration and enforcement.

Financial Statement

STATEMENT OF RECEIPTS AND DISBURSEMENTS

July 1, 1933 to June 30, 1934

Cash Balance, July 1, 1933	- - - - -	\$ 532.80
Receipts:		
Registration and Renewal Fees	- - - - -	1,021.00
		<u>\$1,553.80</u>
Disbursements:		
Requisitions on Comptroller General	- - - - -	\$ 948.59
Check Tax	- - - - -	.06
Cash Balance, June 30, 1934	- - - - -	605.15
		<u>\$1,553.80</u>

ANALYSIS OF DISBURSEMENTS

July 1, 1933 to June 30, 1934

Salaries (Secretary)	- - - - -	\$ 440.00
Per Diem of Board Members	- - - - -	50.00
Clerical Help	- - - - -	125.00
Travel of Board Members	- - - - -	76.85
Printing and Advertising	- - - - -	108.32
Office Supplies	- - - - -	80.42
Insurance	- - - - -	15.00
Association Dues	- - - - -	25.00
Refund	- - - - -	3.00
Rent—Office	- - - - -	25.00
		<u>\$ 948.59</u>

*Hon. Ibra C. Blackwood, Chairman,
State Budget Commission,
Columbia, South Carolina.*

Dear Sir:

In compliance with the law, we have audited the accounts of the Board of Engineering Examiners covering the period beginning July 1, 1933 and ending June 30, 1934.

The records of the Board are kept in a very commendable manner and all cash of record is properly accounted for.

Respectfully submitted,

J. M. SMITH,
State Auditor.

Columbia, S. C., July 7, 1934.

STATE OF SOUTH CAROLINA,
County of Greenville,

I, Geo. R. Morgan, Chairman of the State Board of Engineering Examiners, do hereby certify that the financial statement herein rendered of the State Board of Engineering Examiners is true to my own knowledge, except those matters and facts stated on information and belief, and as to those, I believe it to be true.

GEORGE R. MORGAN.

Subscribed and sworn to before me this 16th day of October, 1934.

FRANCES WILLIAMS,
Notary Public for S. C.

STATE OF SOUTH CAROLINA,
County of Richland.

I, T. Keith Legaré, Secretary of the State Board of Engineering Examiners, do hereby certify that the financial report herewith rendered is a correct statement of the finances of the State Board of Engineering Examiners, for the period specified.

T. KEITH LEGARÉ.

Subscribed and sworn to before me this 18th day of October, 1934.

WM. A. CRARY, JR.,
Notary Public for S. C.

Roster of Registered Engineers and Land Surveyors

Authorized to Practice in the State of South Carolina, as of September 30, 1934.

NOTE—IMPORTANT THAT SECRETARY BE NOTIFIED OF CHANGE IN POSITION OR ADDRESS.
Key to abbreviations in classification: C.E., Civil Engineer; E.E., Electrical Engineer; E.M., Mining Engineer;
M.E., Mechanical Engineer; L.S., Land Surveyor; N.A., Naval Architect.

Name and Position		Address	Classification	Certificate Date	No.
ADAMS, J. K., Chief Struct. Designer, J. E. Sistine & Co.		Box 347, Greenville, S. C.	C.E.	3-22-23	72
ANDERSON, JOHN, Prof. Civil Engineering, The Citadel		Charleston, S. C.	C.E.	9-14-22	7
ANDERSON, NOEL S., Cons. Eng., Direccion Nacional de Violidad.		Buenos Aires, Argentina.	C.E., E.M.	3-22-23	246
ANDERSON, PAUL H., Civil Engineer.		Woodruff, S. C.	C.E., L.S.	7-12-32	376
BABB, ROBERT E., Jr., Civil Engineer.		908 Pickens St., Columbia, S. C.	C.E., L.S.	7-11-33	384
BAILEY, O. A., Chief Engr., Chicago Bridge & Iron Works.		1305 West 105th St., Chicago, Ill.	C.E.	11-19-23	277
BALDWIN, C. M., Civil Engr., Atlantic Coast Lumber Corp.		205 Dozier St., Georgetown, S. C.	C.E., L.S.	9-14-22	9
BALLENGER, C. P., Engineer, Ballenger Paving Co.		226 Emaxcee Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	73
BARRE, B. H., Engr., Railroad Comm. of South Carolina.		103 State Office Bldg., Columbia, S. C.	E.E.	12-6-32	380

BECKHAM, W. K., Maintenance Engr., State Highway Dept.	505 S. Saluda Ave., Columbia, S. C.	C.E., L.S.	9-14-22	10
BEEBE, HARWOOD, Municipal and Civil Engineer. Chm., State Board of Engineering Examiners	Montgomery Bldg., Spartanburg, S. C.	C.E., L.S.	3-22-23	88
BELLINGER, HARRY O'B., Asst. City Engineer.	City Hall, Columbia, S. C.	C.E.	3-22-23	86
BISHOP, ROY P., Town Manager.	Salem, Va.	C.E., L.S.	12-5-22	40
BLACKWELDER, C. D., J. E. Sirrine & Co., Engrs.	P. O. Box 1516, Greenville, S. C.	C.E., M.E.	6-22-26	306
BOONE, L. C., County Engineer, Orangeburg County.	Orangeburg, S. C.	C.E.	9-14-22	11
BOYKIN, A. B., Land Surveyor.	P. O. Box 53, Camden, S. C.	L.S.	3-22-23	76
BOYKIN, L. W., Jr., Civil Engineer and Land Surveyor.	Aiken, S. C.	C.E., L.S.	7-10-28	324
BOWEN, WILLIAM CASON, Civil Engineer.	488 S. Church St., Spartanburg, S. C.	C.E., L.S.	7-11-33	383
BRICE, CHAS. M., Resident Engineer, C. W. A.	St. Matthews, S. C.	C.E., L.S.	3-22-23	85
BRIGGS, W. A., Engr. and Contractor.	Capers Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	83
BULL, J. L., Jr., Principal Winyah High School.	202 Cannon St., Georgetown, S. C.	C.E., L.S.	7-8-30	357
BURSLEY, HAROLD B., Chief Engr., E. S. Draper.	1522 E. Fourth St., Charlotte, N. C.	C.E.	7-8-30	349

BUSSEY, H. E., Dist. Engr., General Electric Co.	187 Spring St., N. W. Atlanta, Ga.	M.E., E.E.	4-21-25	293
BYNUM, HENRY L., Federal Land Bank.	Columbia, S. C.	L.S.	7-9-29	338
CAMPBELL, C. D., Asst. Div. Engr., State Highway Dept.	2120 Lincoln St., Columbia, S. C.	C.E., L.S.	3-22-23	90
CANNON, O. B., Supt. of Newberry Schools and Surveyor.	P. O. Box 415, Newberry, S. C.	L.S.	12-5-22	63
CHAPMAN, ROBT. H., Steam Engr. Dept., J. E. Sirrinc & Co.	Greenville, S. C.	M.E.	3-22-23	99
CHEWNING, C. C., Engineer, State Highway Dept.	Walterboro, S. C.	C.E., L.S.	12-2-30	362
COLEMAN, J. HEARST, City Engineer.	City Hall, Greenwood, S. C.	C.E., L.S.	7-11-33	385
DAWSON, LOUIS Y., Const. Engr., S. C. Power Co. Pres. Dawson Engineering Co.	P. O. Box 535, Charleston, S. C.	C.E., L.S.	12-5-22	42
DAWSON, L. Y., Jr., Vice-Pres. Dawson Engineering Co.	21 Broad St., Charleston, S. C.	C.E., L.S.	3-22-23	101
DEAN, FRANCIS FURMAN, Electrical and Mechanical Engineer.	133 N. Prevost St., Anderson, S. C.	E.E., M.E.	7-10-34	396
DINGLE, J. H., City Engineer.	182 Tradd St., Charleston, S. C.	C.E., L.S.	9-14-22	14
DOTTERER, E. GAILLARD, Pres., Dotterer Engineering Co.	9 State St., Charleston, S. C.	C.E.	12-5-33	387
DUNCAN, DANIEL T., Professional Engineer.	401 Professional Bldg., Greenwood, S. C.	C.E., L.S.	12-5-33	393

DURANT, C. E., Land Surveyor and Timber Estimator.	Cottageville, S. C.	L.S.	3-22-23	243
ELLISON, CLARENCE H., JR., H. S. Jaudon Engineering Co.	Box 582 Elberton, Ga.	C.E.	7-11-33	386
EMERSON, C. L., Vice-Pres. and Chief Engr., Robert & Co.	706 Bona-Allen Bldg., Atlanta, Ga.	C.E., E.E., M.E.	7-9-29	335
EMERSON, L. A., Examining Engineer, Public Works Administration.	Columbia, S. C.	C.E., L.S.	9-14-22	15
ERVIN, A. L., County Manager, Florence County.	P. O. Box 3, Florence, S. C.	C.E., L.S.	3-22-23	105
EVANS, R. M., Civil Engr. and Land Surveyor.	703 W. Main St., Bennettsville, S. C.	C.E., L.S.	3-22-23	108
FLOYD, G. T., Civil Engineer and Surveyor.	Manning, S. C.	C.E., L.S.	9-14-22	16
FORD, G. T., Engineering and Land Surveying.	222 Cannon St., Georgetown, S. C.	C.E., L.S.	9-14-22	17
FREEMAN, J. EARLE, Minister and Land Surveyor.	Taylors, S. C.	L.S.	12-6-32	381
FRY, E. D., Supt., Greater Greenville Sewer District.	P. O. Box 1416, Greenville, S. C.	C.E., L.S.	3-22-23	112
GANDY, R. B., Engineer, State Highway Department.	Andrews, S. C.	C.E., L.S.	3-22-23	119
GARETY, J. H., Engr., Port Utilities Comm.	1 Vendue Range Charleston, S. C.	C.E.	12-3-29	345
GARRISON, L. CLYDE, Engineer and Surveyor.	Winnsboro, S. C.	C.E., L.S.	3-22-23	116

GETTYS, J. T., JR., Land Surveyor.	Lugoff, S. C.	L.S.	7-12-32	379
GIBSON, J. E., Mgr. and Engr., Water Dept., Com. Pub. Wks.	14 George St., Charleston, S. C.	C.E.	3-22-23	244
GOOCH, JOSEPH HESTER, Surveyor and Draftsman, Harwood Beebe Co.	125 E. Lee St., Spartanburg, S. C.	L.S.	7-10-34	397
GOURDIN, P. G., Civil Engineer and Surveyor.	Kingstree, S. C.	C.E., L.S.	9-14-22	18
GRADICK, L. E., Engineer and Surveyor.	18 Harris Bldg., Spartanburg, S. C.	C.E., L.S.	7-12-32	377
GREEN, L. LOUIS, Jr., Charleston Dry Dock & Machine Co.	928 Rutledge Ave., Charleston, S. C.	N.A.	7-14-31	368
GUNTER, GEO. C., Land Surveyor.	Leesville, S. C.	L.S.	12-5-22	45
HAWES, EDWARD, City Engineer.	City Hall, Orangeburg, S. C.	C. E., L.S.	3-22-23	136
HERBERT, WALTER C., Engr., Elec. Util. Div., S. C. R. R. Com.	State Office Bldg., Columbia, S. C.	E.E., M.E.	12-1-31	372
HESTER, W. A., Land Surveyor.	Route 1, Daucusville, S. C.	L.S.	3-22-23	124
HICKLIN, W. J., Capitol Concrete Co.	623 Pearl Court, South Jacksonville, Fla.	C.E.	3-22-23	121
HILL, GEORGE, Mechanical and Electrical Engineer.	P. O. Box 116, Wellford, S. C.	M.E., E.E.	6-19-23	266
HILL, BURROW, Res. Engr., S. C. State Hwy. Dept.	Box 195, Anderson, S. C.	C.E.	3-22-23	134

HIPP, J. C., Engr., Lockwood-Greene Engrs., Inc.	Montgomery Bldg., Spartanburg, S. C.	C.E., L.S.	11-15-29	341
HOLMAN, A. E., Chief Engr., Gossett's Mills.	226 E. Franklin St., Anderson, S. C.	E.E., M.E.	3-22-23	120
HOLMES, Wm. F., Walter Kidde Constructors.	140 Cedar St., New York, N. Y.	C.E.	3-22-23	133
HOLT, D. T., Land Surveyor.	Wateree, S. C.	L.S.	3-22-23	126
HOWE, G. M., Asst. City Engineer.	P. O. Box 807, Charleston, S. C.	C.E., L.S.	9-14-22	20
HULICK, D. A., City Engineer.	City Hall, Greenville, S. C.	C.E., L.S.	3-22-23	130
HUMBERT, H. B., County Engineer.	557 Gadsden Court, Spartanburg, S. C.	C.E., L.S.	12-5-22	47
HUNTER, HARRY GRIFFITH, Consulting Engineer.	Box 662, Greensboro, N. C.	C.E.	7-10-34	395
HUNTINGTON, R. S., Huntington & Guerry, Inc.,	Box 578 Greenville, S. C.	E.E.	6-22-26	304
JERVEY, E. D., Engr., Sanitary and Drainage Commission.	39 Broad St., Charleston, S. C.	C.E.	3-22-23	144
JEWELL, P. V., Dean, Div. Mechanics, State College.	State College, Orangeburg, S. C.	E.E., M.E.	12-5-33	392
JOHNSON, J. M., Johnson & Roberts, Engrs. and Surveyors.	Drawer 600, Marion, S. C.	C.E., L.S.	3-22-23	146
JOHNSON, R. C., Civil Engr. Instructor, University of S. C.	University of S. C., Columbia, S. C.	C.E.	12-5-33	394

KEELS, JOSEPH, Engr., Tomlinson Engineering Co.	1226 Sumter St., Columbia, S. C.	C.E., L.S.	12-5-22	49
KERR, LORAN A., Mgr. and Treas., Eureka Land Co.	P. O. Box 44, Cheraw, S. C.	L.S.	3-22-23	149
KESTER, H. H., Captain of Guards, S. C. Penitentiary.	Columbia, S. C.	C.E.	3-22-23	152
KOLLOCK, J. T., Forest Engineering.	4 Broad St., Charleston, S. C.	C.E.	3-22-23	150
LABRUCE, J. BRYCE, Supt. of Const., Simons-Mayrant Co.	131 Ashley Ave., Charleston, S. C.	C.E., M.E., L.S.	3-22-23	157
LEGARÉ, A. E., State Sanitary Engr., State Board of Health	State Office Bldg., Columbia, S. C.	C.E., L.S.	6-23-25	296
LEGARÉ, T. KEITH, Chief Labor Inspector, State Highway Dept. Sec'y. State Bd. Engineering Examiners. Sec'y, Natl. Council State Bds. Eng. Exam's.	State Office Buildings, Columbia, S. C.	C.E., L.S.	9-14-22	3
LeTELLIER, L. S., Head, Dept. of Engineering, The Citadel. Member, State Bd. of Engineering Examiners.	The Citadel, Charleston, S. C.	C.E.	9-14-22	2
LEVER, S. R., Civil Engineer.	Rt. 1, Box 277, College Pl., Columbia, S. C.	C.E.	6-19-23	267
LEWIS, W. S., City Engineer.	44 Alleghany St., Clifton Forge, Va.	C.E.	3-22-23	160
LINDER, THOS. T., Registered Land Surveyor.	Route 1, Spartanburg, S. C.	L.S.	3-22-23	154
LINDSAY, Wm. S. Jr., Engr., J. E. Sirrline & Co.	Greenville, S. C.	C.E., L.S.	3-22-23	158

MANHEIM, C. M., Engr., State Highway Dept.	Box 256, Conway, S. C.	C.E., L.S.	3-22-23	260
MATTHEWS, J. D., Civil Engineer, State Highway Dept.	Eastover, S. C.	C.E., L.S.	7-12-32	378
MAYRANT, W. R., Gen. Mgr., Simons-Mayrant Co.	16 Broad St., Charleston, S. C.	C.E.	3-22-23	168
MOORE, H. A., Surveyor, J. T. Kollock, Inc.	4 Broad St., Charleston, S. C.	L.S.	7-8-30	359
MOOREFIELD, CHAS. H., State Highway Engineer.	State Office Bldg., Columbia, S. C.	C.E.	6-22-26	309
MORELAND, EDWARD L., Jackson & Moreland.	31 St. James Ave., Boston, Mass.	E.E.	2-9-33	382
MORGAN, B. A., JR., Civil Engineer.	Box 563, Greenville, S. C.	C.E., L.S.	12-1-31	373
MORGAN, G. R., Sales Engineer. Member State Bd. of Eng. Examiners.	P. O. Box 563, Greenville, S. C.	E.E., M.E.	12-7-26	312
MORRIS, S. C., Registered Land Surveyor.	Lake City, S. C.	L.S.	12-5-33	389
MOSS, S. DIBBLE, Surveyor, Orangeburg Insurance Agency.	32 N. Church St., Orangeburg, S. C.	L.S.	7-10-28	327
McLELLAN, R. F., Civil Engineer and Land Surveyor.	Sumter, S. C.	C.E., L.S.	9-14-22	28
McLURE, J. H., City Engr. and Treasurer.	City Hall, Chester, S. C.	C.E., L.S., E.M.	3-22-23	252
McMILLAN, C. R., Central Div. Engr., State Highway Dept.	1005 Main St., Columbia, S. C.	C.E.	6-19-23	271

McPHERSON, JNO. A., Chief Engr., Building and Plan Dept. J. E. Sirrine & Co.	Greenville, S. C.	C.E.	3-22-23	172
NEEDLE, JOE, Asst. City Engineer.	City Hall, Charleston, S. C.	C.E., L.S.	9-14-22	29
NEVES, W. D., Dalton & Neves.	Cleveland Bldg., Greenville, S. C.	C.E., L.S.	3-22-23	176
NIMITZ, ARTHUR E., Engineer and Architect.	Box 1562, Station A., Chattanooga, Tenn.	C.E.	12-5-22	53
OLSEN, Wm. C., Consulting Engineer.	406 Bldg. and Loan Bldg., Raleigh, N. C.	M.E., E.E.	12-7-26	310
OTTO, OLAF, Engineer and Contractor.	101 East 54th St., Savannah, Ga.	C.E.	7-12-32	374
PARKER, J. L., Chief Engr., Chesapeake Bay Bridge Co.	304 Mercantile Trust Bldg., Baltimore, Md.	C.E.	3-22-23	188
PIATT, Wm. M., Consulting Engineer.	First National Bank Bldg., Durham, N. C.	C.E., E.E.	12-5-22	55
PEARSON, J. F., Supt. Orangeburg Water & Light Plant.	52 S. Middleton St., Orangeburg, S. C.	E.E., M.E.	3-22-23	182
PHILLIPS, J. VERNON, Civil Engineer and Surveyor.	122 E. Jeffries St., Gaffney, S. C.	C.E., L.S.	12-2-30	364
PORTER, R. M., Administration Assistant, F. E. R. A.	Washington, D. C.	C.E., L.S.	3-22-23	245
PORTER, R. D., Engr., J. E. Sirrine & Co.	9 Easley St., Greenville, S. C.	M.E., C.E.	3-22-23	250
POSTELL, JAS. A., Land Surveyor.	R. F. D., Ravenels, S. C.	L.S.	9-14-22	31

POWERS, R. M., Inspector, U. S. Engineers.	Beaver, Pa.	C.E., L.S.	3-22-23	180
PRETTYMAN, C. F., Civil Engineer and Land Surveyor.	P. O. Box 225, Summerville, S. C.	C.E., L.S.	3-22-23	187
QUATTLEBAUM, McQUEEN, Quattlebaum Ice & Fuel Co.	Johnston, S. C.	C.E., L.S., M.E.	3-22-23	249
RAMBO, S. B., Civil Engineer.	211 East Ave., Greenwood, S. C.	C.E.	12-5-22	57
RICHARDSON, JOHN, Pres. & Mgr., Richardson Construction Co.	P. O. Box 694, Charleston, S. C.	C.E., L.S.	3-22-23	190
ROBERTS, C. P., Johnson & Roberts, Consulting Engineers.	Drawer 600, Marion, S. C.	C.E., L.S.	3-22-23	239
RODGERS, Wm. SINCLAIR, Dist. Supt., Broad River Power Co.	145 S. Bull St., Columbia, S. C.	E.E., M.E.	3-22-23	191
ROWE, WALTER E., Dean, School of Engineering Univ. of S. C.	Columbia, S. C.	C.E.	12-1-25	298
RYAN, G. D., Ryan Engineering Co.	41 Arcade, Columbia, S. C.	C.E., L.S.	3-22-23	198
SALLEY, M. G., Farmer and Land Surveyor.	R. F. D. 3, Orangeburg, S. C.	L.S.	12-5-33	388
SANDERS, W. A., Civil Engineer.	600 North Fant St., Anderson, S. C.	C.E.	3-22-23	199
SCRUGGS, E. L., Chief Engr., The Springs Cotton Mills.	Lancaster, S. C.	C.E.	1-15-28	321
SCRUGGS, J. Y., Engineer.	P. O. Box 302, Rock Hill, S. C.	C.E.	3-22-23	241
SHAND, G. E., Consl. Engr., Elec. Util. Div., S. C. R. R. Com.	State Office Bldg., Columbia, S. C.	C.E., M.E.	9-14-22	1

SHANNON, JAMES R., Power Plant Shift Engr., Lago Petroleum Co.	Apartado 172, Maracaibo, Venezuela, S. A.	M.E.	10-6-31	371
SHEARER, Wm. H., Civil Engineer and Surveyor.	506 Marshall Ave., Anderson, S. C.	C.E., L.S.	9-14-22	35
SHULER, E. H., Asst. Prof. of Math., Wofford College. Vice Chm., State Board of Eng. Examiners.	126 E. Cleveland St., Spartanburg, S. C.	M.E., E.E., L.S.	3-22-23	209
SIRRINE, J. E., J. E. Sirrine Co., Engineers.	South Main St., Greenville, S. C.	C.E., L.S.	12-5-22	60
SMITH, ELROY G., Consulting Engineer.	311-314 Herald Bldg., Augusta, Ga.	C.E., L.S.	7-10-28	326
SMITH, T. J., Land Surveyor.	238 N. Purdy St., Sumter, S. C.	L.S.	3-22-23	211
SMYLY, J. W., Land Surveyor.	Ruffin, S. C.	L.S.	3-22-23	202
SPELLMAN, J. F., Civil and Mechanical Engineer.	106 Atwood Ave. Greenville, S. C.	C.E., M.E.	3-22-23	204
STEVENSON, JAMES A., Asst. Prof., Civil Engineering.	Clemson College, S. C.	C.E., L.S.	12-2-30	363
STRIBLING, H., Civil Engineer	Merch'ts & Farmers Bk. Bldg., Spartanburg, S. C.	C.E., L.S.	3-22-23	210
SUMWALT, R. L., Prof. of Civil Engineering.	University of S. C., Columbia, S. C.	C.E.	7-14-31	367
SWEENEY, F. R., Consl. Engr., F. R. Sweeny & Co.	Anderson, S. C.	C.E.	3-22-23	247
THOMSON, B. M., Assistant City Engineer.	2-B Wesson Ave., Charleston, S. C.	C.E., L.S.	9-14-22	34

TINDALL, W. P., Engr., American Eureka Corp.	41 Covington St., W. Asheville, N. C.	M.E.	12-3-29	344
TOMLINSON, W. S., City Engineer. Pres. Tomlinson Engineering Co.	City Hall, Columbia, S. C.	C.E., L.S.	9-14-22	4
WALLACE, W. G., Assistant Lighthouse Engineer.	9 Ladson St., Charleston, S. C.	C.E.	6-19-23	273
WANNAMAKER, H. L., Engineer and Contractor.	5 Halsey St., Charleston, S. C.	C.E.	3-22-23	248
WANNAMAKER, W. W., Jr., Wannamaker & Wells, Inc.	P. O. Box 516, Orangeburg, S. C.	C.E., L.S.	12-1-25	301
WELLWOOD, ARTHUR R., Regional Supervisor, Federal Power Comm.	Atlanta, Ga.	C.E., E.E., L.S.	7-14-31	369
WESTON, WILLIAM C., Field Engr., State Board of Health.	State Office Bldg., Columbia, S. C.	C.E.	3-22-23	225
WHITE, GUY H., Supt. of Water Plant, City of Columbia.	Filtration Plant, Columbia, S. C.	M.E.	9-14-22	37
WHITE, HIRAM H., Real Estate.	258 E. White St., Rock Hill, S. C.	C.E., L.S.	3-22-23	228
WHITFIELD, W. A., Dist. Office Engr., N. C. State Hwy. Comm.	200 Flint St., Asheville, N. C.	C. E.	12-5-22	66
WIEDEMAN, H. F., Consl. Engr., Wiedeman & Singleton, Inc.	1404 Candler Bldg., Atlanta, Ga.	C.E.	6-23-25	294
WILLIAMSON, J. S., Western Div. Engr., State Highway Dept.	Capers Bldg., Greenville, S. C.	C.E.	3-22-23	229
WINTER, JAMES A., Land Surveyor, Winter & Holland Co.	Peoples Bank Building, Anderson, S. C.	L.S.	3-22-23	227

WISWALL, HOWARD, Timber Estimator.	10 Watauga St., Asheville, N. C.	C.E., L.S.	3-22-23	253
WRIGLEY, GEORGE, Head, Elec. Dept., J. E. Serrine & Co.	Greenville, S. C.	M.E., E.E.	9-14-22	5
YOUNG, E. G., Catawba Lumber Co.	360 Confederate Ave., Rock Hill, S. C.	L.S.	12-5-33	391

Deceased: B. R. Cowherd, Jr.; T. H. Hardin, Paul H. Norcross, H. C. Hightower, Arthur G. Boozer, Nisbet Wingfield, Adlai Osborne, H. G. Jones, B. G. Langford, H. S. Jaudon, B. M. English, S. R. Flowers, J. L. Ludlow, R. T. Crawford; F. M. Reeves; Richard C. Rhett; Chas. C. Wilson; J. F. Sullivan.

Civil Code of South Carolina 1932

Chapter 148

Regulation of Certain Professions, Trades and Businesses

Article 2.

ENGINEERS AND LAND SURVEYORS

SECTION 7063. *Registration of Engineers and Land Surveyors.*—In order to safeguard life, health and property, any person practicing or offering to practice professional engineering or land surveying hereafter in this State shall be required to submit evidence that he or she is qualified so to practice, and shall be registered as hereafter provided; and that it shall be unlawful for any person to practice or to offer to practice professional engineering or land surveying in this State unless such person has been duly registered as a professional engineer or land surveyor, or has been exempt from registration under the provisions of this article: Provided, That the provisions of this article shall not apply to land surveyors unless they desire to hold themselves out as registered land surveyors.

SECTION 7064. *Expenses Not to Exceed Fees Collected.* Under no circumstances shall the total amount of warrants issued by the State auditor in payment of the expenses and compensations provided in this article exceed the amount of the examination and registration fees collected as herein provided.

SECTION 7065. *Terms Defined.*—As used in this article:

(a) The Board" means the State Board of Engineering Examiners provided for by this article.

(b) "Surveyor," any person who shall be engaged in locating, establishing or relocating any land boundary lines between two or more landowners, or who shall be engaged in locating any United States Government, State, county, township or municipal land survey lines, or the lines of any public streets or roads, is hereby declared to be a surveyor and as practicing land surveying within the provisions of this article.

(c) Any person who shall be engaged in the designing or supervising of the construction, enlargement or alteration of any engineering structure, or utilities, as hereinafter defined, or any part thereof for others and to be constructed by persons other than himself, shall be regarded as practicing professional engineering within the meaning of this article. The practice of professional engineering within the meaning of this article embraces the design and the supervision of the construction of public and private utilities, such as railroads, bridges, highways, roads canals, harbors, river improvements, light-houses, wet docks, dry docks, ships, barges, dredges, cranes, floating docks and other floating property, the design and the supervision of the construction of steam engines, turbines, internal combustion engines and other mechanical structures, electrical machinery and apparatus, and of works for the developments, transmission or application of power, the design and the supervision of mining operations and of processes and apparatus for carrying out such operations, and the design and supervision of the construction of municipal works, irrigation works, water supply works, sewerage works, drainage works, industrial works, sanitary works, hydraulic works and structural works and other public or private utilities or works which require for their design

or supervision of the construction such experience and technical knowledge as are required in Section 7070. The execution as a contractor of work designed by a professional engineer, or the supervision of the construction of such work as a foreman or superintendent for such a contractor shall not be deemed to be the practice of professional engineering within the meaning of this article.

(d) "Engineer" means any person who practices professional engineering.

SECTION 7066. State Board of Engineering Examiners—Appointment—Term—Qualifications—Compensation.—There is hereby created a State Board of Engineering Examiners consisting of five members, to be appointed by the Governor within sixty (60) days after the passage of this article. Three members of the board shall be civil engineers, one a mining or electrical engineer, and the other one a mechanical engineer or naval architect. Of the members of the board first appointed hereunder, two shall hold office for a term of two years, two shall hold office for a term of three years, and one shall hold office for a term of four years, each term of office ending the first day of July. Upon the expiration of each of such terms the term of office of each member thereafter appointed shall be four years. Each member shall hold over the expiration of his term until his successor shall be duly appointed and qualified. The Governor may remove any member of the board for misconduct, incapacity or neglect of duty. Vacancies in the board caused by death, resignation or removal from office shall be filled by appointment by the Governor for the unexpired term. Each member of the board shall be a professional engineer of at least ten years' active experience and of recognized good standing in his profession and shall be at least thirty-five years of age and shall have been a resident of this State for at least three years immediately preceding his appointment. Each member of said board, except the members first appointed hereunder, shall also be registered as a professional engineer under this article. The members of the board shall receive as compensation the sum of ten (\$10.00) dollars per day for the time actually spent in traveling to and from and in attending sessions of the board and its committees, and each member shall receive all necessary expenses incident to the performance of his duties under this article.

SECTION 7067. Oath—Registration—Seal—By-Laws.—Every member of the board shall receive a certificate of his appointment from the Governor, and before beginning his term of office shall file with the Secretary of State his written oath for the faithful discharge of his official duty. Each member of the board first appointed hereunder shall receive a certificate of registration under this article from said board. The board shall adopt and have an official seal. The board may make all by-laws and rules not inconsistent with law needed in performing its duties; but no by-law or rule by which more than a majority vote is required for any specified action by the board shall be amended, suspended or repealed by a smaller vote than that required for action thereunder.

SECTION 7068. Organization—Secretary—Expenditures—Reports.—The board shall annually elect from its members a chairman, a vice-chairman and a secretary. The secretary shall give a surety bond in the sum of three thousand (\$3,000.00) dollars, conditioned for the faithful performance of his duties and for the accounting and paying over of all monies received by him. The premium of said bond shall be paid from the fund of the board hereinafter provided. The secretary shall keep on file a record of all certificates of registration granted. He shall receive and account for all fees derived from the operation of this article, and shall pay to the State Treasurer, who shall keep such monies in a separate fund, to be known as the fund of the board of engineering examiners, continued from year to year, to be drawn against only for the expenses of the board. Warrants for the payment of the expenses incurred shall be issued by the Comptroller General of the State and paid by the State

Treasurer upon presentation of vouchers regularly drawn by the chairman and the secretary of the board: Provided, however, That at no time shall the total amount of warrants exceed the total amount of fees paid under this article. On or before the 30th day of June in each year the board shall submit to the Governor a written report of its transactions for the preceding year, and shall file with the Secretary of State a copy of said report, together with a complete statement of the receipts and expenditures of the board, attested by the affidavits of the chairman and the secretary, and a complete list of those registered under this article, with their addresses and the dates of their certificates of registration. The board shall hold at least two regular meetings in each year, special meeting may be called in such manner as the by-laws of the board may provide. Notice of all meetings shall be given in such manner as the by-laws of the board may provide. At all meetings a majority of the board shall constitute a quorum.

SECTION 7069. *Employees.*—The board shall have power to employ, during its pleasure such clerks and other employees and to rent such offices as may be necessary for the proper performance by it of its duties as in this article prescribed.

SECTION 7070. *Admission to Examination.*—The board shall admit to examination any candidate who pays a fee of fifteen (\$15.00) dollars and submits evidence verified by oath and satisfactory to the board that he:

- (a) Is more than twenty-one (21) years of age.
- (b) Is of good character, and
- (c) Has been engaged in the practice of professional engineering or land surveying for at least four (4) years, and during that period has had charge of said work as principal or assistant for at least one year.

(d) Or in lieu of requirement (c) specified above, is a graduate from an engineering school.

(e) Provided, however, That no person shall be eligible for registration who is not a citizen of the United States of America unless he has filed his first papers for naturalization; and then he will be required to have completed his naturalization within three years from the date that he is granted certificate of registration, or he will be deprived from further practicing his profession or calling, as set forth in this article.

SECTION 7071. *Examinations.*—Examinations for registration shall be held at regular or special meetings of the board at such times and at such places within the State in each year as the board shall determine. The scope of the examinations and the methods of procedure shall be prescribed by the board with special reference to the applicant's ability to design and supervise engineering works, which shall insure the safety of life and property. Examinations shall be held to determine the qualifications of applicants for registration separately in surveying or in any one of the branches of professional engineering, embracing civil, mechanical and electrical, mining or naval architecture. The examination may be either oral or partly oral and partly written. As soon as practicable after the close of each examination the members of the board who shall have conducted such examination shall make and sign and file with the secretary a certificate stating the action of the board upon the application of each candidate, whereupon the secretary of the board shall notify each candidate of the result of his examination. A candidate failing on examination may, after an interval of not less than one year, be examined again.

SECTION 7072. *Fees—Certificates.*—In the case of examination as professional engineer, upon the receipt of an additional fee of ten (\$10.00) dollars, the board shall issue to any applicant who has been reported to have passed the examination conducted by the board, a certificate of registration as a professional engineer in the branch or branches in which he is qualified, signed by

the chairman and secretary of the board under the seal of the board, whereupon such applicant shall be authorized to practice professional engineering as defined by this article. In case of examination as land surveyor the board shall issue to any applicant who has been reported to have passed the examination conducted by the board, a certificate of registration as land surveyor, signed by the chairman and secretary of the board under the seal of the board, whereupon such applicant shall be authorized to practice land surveying as defined by this article. A certificate of registration as a professional engineer shall not carry with it the right to practice land surveying unless it is specially permitted by said certificate, which permission shall be granted by the board without additional fee in the case of an applicant duly qualified as prescribed by the rules of the board.

SECTION 7073. *Certification within One Year without Examination.*—At any time within one year after this article becomes effective, upon due application thereof and the payment of a fee of twenty-five (\$25.00) dollars, the board shall issue a certificate of registration, as provided by Section 7072, to any professional engineer or land surveyor who shall submit evidence under oath and satisfactory to the board that he is of good character, has been a resident of the State of South Carolina for at least one year immediately preceding the date of his application, and has practiced professional engineering or land surveying preceding the date of his application, and during that period has had charge of engineering work or land surveying as principal or assistant. After this article shall have been in effect one year, the board shall issue certificates of registration only as provided in Sections 7067, 7072 and 7073.

SECTION 7074. *Reciprocal Registration.*—The board shall, from time to time examine the requirements for the registration of professional engineers in other States, territories and countries and shall record those which, in the judgment of the board, standards not lower than those provided by this article are maintained. The secretary of the board, upon the presentation to him by any person of satisfactory evidence that such person holds a certificate of registration issued to such person by proper authority in any such State, territory or country as recorded and upon receipt by him of a fee of twenty-five (\$25.00) dollars, shall issue to such person a certificate of registration under this article, signed by the president and secretary under the seal of the board, whereupon the person to whom such certificate is issued shall be entitled to all the rights and privileges conferred by a certificate issued after examination by the board.

SECTION 7075. *Revocation of Certificate.*—It shall be the duty of the board to inquire into the identity of any person practicing or claiming to be a land surveyor or professional engineer. The board shall have the power by a four-fifths vote to revoke the certificate of any professional engineer or land surveyor registered hereunder, found guilty of any fraud, deceit or gross incompetency in his practice, or guilty of any fraud or deceit in obtaining his certificate, or in case he is found by the same vote to be incompetent. Proceedings for the revocation of license of registration shall be begun by filing with the secretary of the board written charges against the accused. The board shall designate a time and place for a hearing and shall notify the accused of this action and furnish him a copy of all charges at least ten days prior to the date of the hearing. The accused shall have the right to appear personally or by counsel, to cross examine witnesses or to produce witnesses in his defense. The board may summons witnesses and administer oaths. It shall be the duty of the board to prosecute any person violating the provisions of this article.

SECTION 7076. *Renewal of Registration.*—Every certified professional engineer so registered under this article who desires to continue the practice of his profession shall annually pay to the secretary of the board a fee of five

(\$5.00) dollars on or before a date to be fixed by the board, for which fee a renewal certificate of registration for the current year shall be issued. Every land surveyor so registered under this article who desires to continue the practice of his profession shall annually pay to the secretary of the board a fee of three (\$3.00) dollars on or before a date to be fixed by the board, for which fee a renewal certificate for registration for the current year shall be issued.

SECTION 7077. *Proof of Registry.*—An unrevoked certificate and endorsement of registry made as provided in this article shall be presumptive evidence in all courts and places that the person named therein is legally registered.

SECTION 7078. *Article Applicable to Corporations.*—The provisions of this article shall apply to every corporation, domestic or foreign, engaged in the business of professional engineering within the State of South Carolina, except that certificate of registration issued hereunder shall be held by one or more of its officers or employees instead of by such corporation.

SECTION 7079. *Annual Publication of List of Registrants.*—The board each year shall certify and publish a complete list of registered professional engineers and land surveyors with their business addresses.

SECTION 7080. *Land Surveyors of Five-Year Standing.*—Nothing contained in this article shall apply to land surveyors who shall have been engaged in the active practice of their profession as land surveyors as long as five years prior to the date hereof, but such surveyors may obtain registration upon voluntary compliance with the terms of this article.

SECTION 7081. *Violation a Misdemeanor—Penalty.*—Any person who, not being then legally authorized to practice professional engineering or land surveying within this State according to the provisions of this article and so registered according to law, shall practice, or attempt or advertise to practice, or hold himself out as authorized to practice professional engineering or land surveying, or shall use in connection with his name, or otherwise assume, use or advertise any title or designation tending to convey the impression that he is a professional engineer or registered land surveyor shall be deemed guilty of a misdemeanor, and shall for each offense of which he is convicted be punished by a fine not to exceed five hundred (\$500.00) dollars, or by imprisonment not to exceed three months, or both such fine and imprisonment.

SECTION 7082. *Exemptions from Article.*—This article shall not apply to military engineering or to any professional engineer working for the United States Government nor to employees of railroads or interstate public service corporations. Nor to any professional engineer employed as an advisor or as an assistant to a professional engineer registered under this article; nor to any professional engineer coming from without this State and employed therein until a reasonable time, as prescribed by the rules of the board, shall have elapsed to permit the registration of such person under this article: Provided, That before practicing within this State he shall have applied for the issuance to him of a certificate of registration and shall have paid the fee prescribed in this article.

SECTION 7083. *Not Applicable to Registered Architects.*—This article shall not apply to any architect registered by the State of South Carolina under the provisions of the article creating the State Board of Architecture.

SECTION 7084. *Registrants Exempt from Certain Provisions of Act Requiring Licensing of Architects.*—Persons licensed to practice professional engineering in this State under this article shall be exempt from the provisions of any Act providing for the licensing of architects or regulating the practice of architecture in so far as the definition of "buildings" in any said Architects' Act may include, or be included in the structures enumerated in section 7065.

National Bureau of Engineering Registration

Conducted By

National Council of State Boards of Engineering Examiners

BULLETIN OF INFORMATION

September, 1933

Purpose and Administration

The National Bureau of Engineering Registration is operated as a function of the National Council of State Boards of Engineering Examiners, assisted by an Advisory Board of Representatives from seven national engineering societies. It was established primarily for the convenience of engineers, especially those practicing in more than one State, to minimize the effort and expense of securing registration. The Bureau also constitutes a clearing house for the convenience of the registration authorities of the various States having laws regulating the practice of professional engineering and acts as a reliable source of verified information regarding the professional records of engineers.

The Certificates of Qualification issued by the Bureau are in no sense obligatory for the applicant nor binding upon the State Boards of Registration, nor does the Bureau assume any responsibility to the applicant for securing his legal registration authorizing the practice of engineering in any State. However, the Constitution of the National Council and the engineering registration laws of some states specifically provide for the acceptance of certificates issued by the National Bureau of Engineering Registration.

The following is quoted from the Constitution and By-Laws for the National Council:

"SECTION 6. Committee on National Bureau of Engineering Registration. A National Bureau of Engineering Registration shall be conducted under the direction of the Committee on National Bureau of Engineering Registration. This committee shall consist of five members; three appointed by the incoming President for terms of one, two, and three years respectively, and at the expiration of these terms one member shall be appointed annually by the incoming President for a term of three years; the Chairman of the Committee on Accredited Engineering Schools; and the Chairman of the Committee on Uniform Exami-

nations for Registration. When the words "Registration Bureau" are used it shall mean the Committee on National Bureau of Engineering Registration. The Registration Bureau shall be assisted in its work by an Advisory Board of representatives appointed by national engineering societies or associations which may be invited by the Council to participate.

"The Bureau Committee shall adopt forms, rules, regulations, and fees for the Registration Bureau. The Registration Bureau shall investigate and verify the professional records of engineers and issue Certificates of Qualification to engineers who comply with its requirements. The Certificates of Qualification shall be issued by the Registration Bureau in the name of the National Council of State Boards of Engineering Examiners and shall be signed by the Executive Secretary. These certificates shall be available as evidence of qualification for registration as a professional engineer with State Boards of Registration, for membership in national and state engineering societies, in connection with the award of professional degrees by engineering schools, for presentation to clients when soliciting contracts for professional services, for presentation to employers when applying for positions, and for similar purposes.

"Whenever legally possible and in the absence of disqualifying evidence, Member Boards are expected to give due consideration to, recognize, or accept as competent evidence of qualification, the Certificates of Qualification when submitted in support of applications for registration, or as reciprocal endorsement when submitted by applicants who are registered with some other Member Board, or as the equivalent of reciprocal registration certificates or cards issued by Member Boards, or as prima facie evidence of qualification in lieu of examinations."

The Committee on National Bureau of Engineering Registration is as follows

Hugh A. Kelly, Chairman, Jersey City, New Jersey.

D. B. Steinman, New York City.

H. D. Mendenhall, Tallahassee, Florida.

P. H. Daggett, New Brunswick, New Jersey.

O. Laurgaard, Portland, Oregon.

T. Keith Legaré, Executive Secretary, Columbia, S. C.

(Executive Secretary of National Council of State Boards of Engineering Examiners.)

The national engineering societies are cooperating with the National Council, assisting in the development of the usefulness and efficiency of the Bureau, through an Advisory Board on which the following representatives have been appointed:

American Society of Civil Engineers, George T. Seabury.
American Society of Mechanical Engineers, John H. Lawrence.
American Institute of Electrical Engineers, Walter I. Slichter.
American Institute of Chemical Engineers, J. C. Olsen.
Society for Promotion of Engineering Education, R. I. Rees.
American Railway Engineering Association, R. E. Warden.
American Association of Engineers, C. J. Ullrich.

Requirements for Certificate of Qualification

A Certificate of Qualification will be issued only to an applicant who fully complies with one of the following minimum requirements for a Professional Engineer and who conforms with the other regulations of the Bureau:

- A. Graduation from an approved course in engineering of four years or more in a school or college approved by the Bureau as of satisfactory standing; and a specific record of an additional four years or more of active practice in engineering work of a character satisfactory to the Bureau and indicating that the applicant is competent to be placed in responsible charge of important engineering work; or
- B. Successfully passing a written, or written and oral, examination designed to show knowledge and skill approximating that attained through graduation from an approved four-year engineering course; and a specific record of eight years or more of active practice in engineering work of a character satisfactory to the Bureau and indicating that the applicant is competent to be placed in responsible charge of important engineering work; or
- C. A specific record of twelve years or more of active practice in engineering work of a character satisfactory to the Bureau and indicating that the applicant is qualified to design or to supervise construction of engineering works and has had responsible charge of important engineering work for at least five years and provided applicant is not less than thirty-five years of age.

In passing upon the professional record and experience of an applicant the Bureau will construe "professional engineer" or "active practice in engineering work" as follows:

The terms "Professional Engineer" shall mean a person who, by reason of his knowledge of mathematics, the physical sciences and the principles of engineering, acquired by professional education and practical experience, is qualified to engage in engineering as hereinafter defined.

The practice of professional engineering includes any professional service, such as consultation, investigation, evaluation, planning, designing, or responsible supervision of construction or operation, in connection with any public or private utilities, structures, buildings, machines, equipment, processes, works, or projects, wherein the public welfare, or the safeguarding of life, health, or property is concerned or involved, when such professional service requires the application of engineering principles and data.

The mere execution, as a Contractor, of work designed by a Professional Engineer or the supervision of the construction of such work as a foreman or superintendent shall not be deemed to be active practice in engineering work.

Fees

The charges for services of the Registration Bureau are as follows:

The fee for investigating and verifying the professional record of an engineer is \$10.00, which fee must accompany application and will be retained by the Registration Bureau regardless of whether or not the results of the investigation warrant the issuance of a Certificate of Qualification.

When an application for Certificate of Qualification is approved, the applicant will be so notified by the Bureau and upon payment by him of an additional fee of \$5.00 the Bureau will furnish the applicant with a photostatic copy of his verified record and also with a separate Certificate of Qualification suitable for framing.

Additional photostatic copies of verified professional records will be furnished by the Registration Bureau for \$3.00 each.

These certified copies of professional records may be sent direct by the Registration Bureau to State Boards of Engineering Registration or other parties designated.

An applicant whose status is classified under provision "B" of the requirements for a Certificate of Qualification and who has not passed an engineering examination satisfactory to the Registration Bureau, will be notified to this effect and, if desired by him, the Registration Bureau will appoint an examining board in the State of which applicant is a resident, to conduct the examination in accordance with standards approved by the Registration Bureau, the cost of such examination to be paid by the applicant.

An independent investigation such as is conducted by the Bureau often requires considerable time, (two weeks to six months) therefore, it is suggested that an engineer not wait until he actually needs a Certificate of Qualification but that he file his application with the Bureau whenever convenient, so that a certified copy of his professional record may be available at any time for presentation to State Boards of Registration with which he desires registration, or for any other appropriate purpose.

Information secured from references is for confidential use of the Bureau in verifying and passing upon professional records of applicants and the source and character of this information will not be divulged except in special cases when desired by legally authorized State Boards of Registration.

Applications for Certificates of Qualification must be made on forms furnished by the Bureau and filed with the Executive Secretary, National Bureau of Engineering Registration, P. O. Drawer 1404, Columbia, S. C.

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